

## **A class of combined relaxation methods for decomposable variational inequalities**

Konnov I.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

### **Abstract**

Combined relaxation methods are convergent to a solution of variational inequality problems under rather mild assumptions and admit various auxiliary procedures within their two-level structure. In this work, we consider ways to construct decomposition schemes within one class of combined relaxation methods, which maintain useful convergence properties. An application to primal-dual variational inequality problems is also given.

<http://dx.doi.org/10.1080/02331930211985>

---

### **Keywords**

Combined relaxation method, Decomposition scheme, Non-monotone mapping, Variational inequalities